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HEAT-RESISTANT LACTIC ACID POLYMER MOLDING

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Abstract of **JP8193165**

PURPOSE: To obtain a lactic acid polymer molding which decomposes in the natural environment and has improved heat resistance and impact strength by mixing a lactic acid polymer, poly-&epsi -caprolactone, and a specific inorg. crystalline powder, melting the mixture, charging the melt into a metal mold. and molding it while simultaneously crystallizing it. CONSTITUTION: 75-95wt.% lactic acid polymer and 5-25wt.% poly-&epsi -caprolactone having a wt. average mol.wt. of 50,000-250,000 are mixed in such a manner that the resulting compsn. has an L-lactic acid ratio of 75wt.% or higher. 100 pts.wt. compsn. thus obtd., 0.1-15 pts.wt. inorg. crystalline powder having an SiO2 content of 50wt.% or higher and a pH of 8.5 or lower, and, if necessary, 1-20 pts.wt. polyester formed from an aliph. polyhydric alcohol and an aliph. polybasic acid or from an aliph. polyhydric alcohol, an aliph. polybasic acid, and a hydroxycarboxylic acid are mixed, melted, charged into a metal mold kept at 85-125 deg.C of a molding machine, and molded and simultaneously crystallized, giving a heat-resistant lactic acid polymer molding resistant to a temp. of 100-160 deg.C.